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SAMSUNG

SyncMaster 570S TFT
580S TFT
Flat Panel Monitor

Owner's Instructions

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For Better Display

1. Adjust computer resolution and screen injection rate (refresh rate) in control panel of computer as described below to enjoy the best quality of picture. You can have an uneven quality of picture in the screen if the best quality of picture is not provided in TFT-LCD.
   • Resolution: 1024 x 768 • Vertical frequency (refresh rate): 60 Hz

2. TFT LCD panel manufactured by using advanced semiconductor technology with precision of 99.999% above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without uneasiness.
   • For example, the no. of TFT LCD pixels that is contained in this product are 2,359,296.

3. When you clean the monitor and the panel outside, please apply the recommended small amount of cleaner by using soft and dry cloth and polish it. Let LCD area not to be forced but to be scrubbed out softly. If excessive force is applied, you can have a stain on it.

4. If you are not satisfied with the quality of picture, you can get better quality of picture by executing "auto adjustment function" in display screen that is appeared as window termination button is pressed. If there's still noise after automatic adjustment, use FINE/ COARSE adjustment function.

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Safety Instructions

1. Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.
2. Never insert anything metallic into the openings in the cabinet of the flat panel display (FPD) monitor; doing so may create the danger of electric shock.
3. To avoid electric shock, never touch the inside of the FPD. Only a qualified technician should open the case of the FPD.
4. Never use your FPD if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.
5. Be sure to hold the plug, not the cord, when disconnecting the FPD from an electric socket.
6. Openings in the FPD cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the FPD on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the FPD in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
7. Put your FPD in a location with low humidity and a minimum of dust.
8. Do not expose the FPD to rain or use it near water (in kitchens, near swimming pools, etc.). If the FPD accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the FPD with a damp cloth when necessary, but be sure to unplug the FPD first.
9. Place the FPD on a solid surface and treat it carefully. The screen is made of thin glass with a plastic front surface and can be damaged if dropped, hit or scratched. Do not clean the front panel with keton-type materials (e.g., acetone), ethyl alcohol, toluene, ethyl acid, methyl, or chloride – these may damage the panel.
10. Locate your FPD near an easily accessible AC outlet.
11. If your FPD does not operate normally – in particular, if there are any unusual sounds or smells coming from it – unplug it immediately and contact an authorized dealer or service center.
12. High temperature can cause problems. Don't use your FPD in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
13. Unplug the FPD when it is going to be left unused for an extended period of time.
14. Unplug your FPD from the AC outlet before any service.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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Unpacking Your Monitor

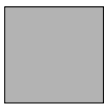
English

Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.

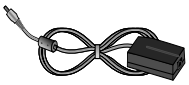
Color Utility & Driver

Pivot software (optional)

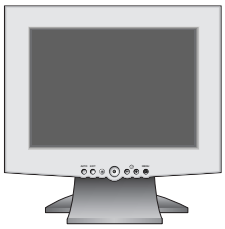
Warranty Card (not available everywhere)



Manual

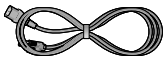


DC Adapter (Optional)



Monitor and Base†

Monitor and Base†



Power Cord

15-pin D-Sub Signal Cable

Speaker Cable (Optional)

Microphone Output Cable (Optional)

† Your monitor may come equipped with one of five different stands, or none at all, according to the option you selected at the time of purchase. Contact your dealer if you want a different base.

Wire-frame base

Angle-Pivot base

Simple base

Multimedia base

Pivot Multimedia base

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Setting up an Ergonomic Workstation

Consider the advice given below before you install your monitor.

Monitor location

Choose a position that exposes you monitor to the least reflection from lights or windows, usually at a right angle to any window.

Workstation height

Place your flat panel display (FPD) monitor so that the top of the screen is slightly below your eye level when you are comfortably seated.

Viewing angle

Tilt the screen backward or forward to a comfortable viewing position.

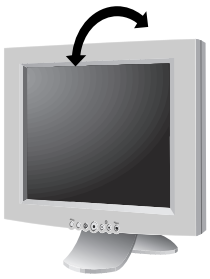

Figure 1. Tilt the screen

Kensington Security Slot

This monitor offers you the opportunity to secure your monitor using a Kensington-type security device. Kensington lock not included. Refer to your locking device documentation for installation instructions.

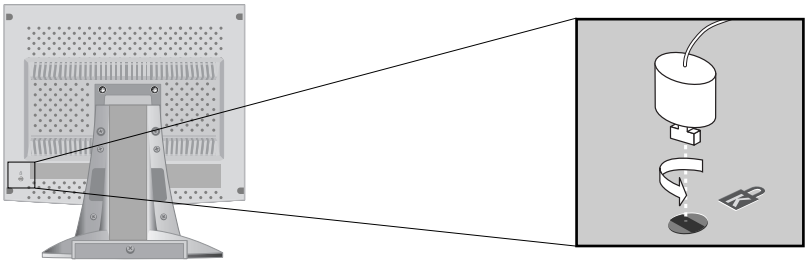

Figure 2. Kensington-type security slot location

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English

Connecting Your FPD Monitor

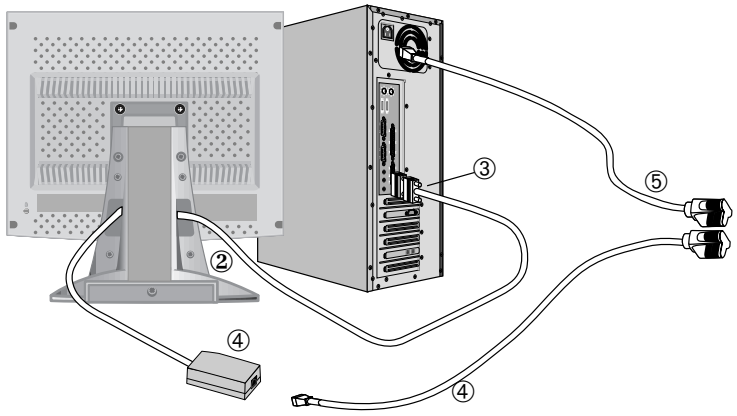

Figure 3. Cable connections

1. Turn off your computer and unplug its power cord.
2. Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.
3. Connect the signal cable to the video port on your computer, video board, video card, or graphics card.
4. Connect the power cord for your monitor to the DC adapter and connect the adapter jack to the DC power port on the back of your monitor.
5. Plug the computer and monitor power cords into a nearby power mains outlet.
6. Turn your computer and monitor on. If your monitor displays an image, it has been successfully installed.
7. If necessary, install the video driver for this monitor (see "Installing the Video Driver" on page 7).
8. After your monitor has been fully installed, run Auto Adjustment (see page 11).

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Connecting Your Multimedia FPD Monitor

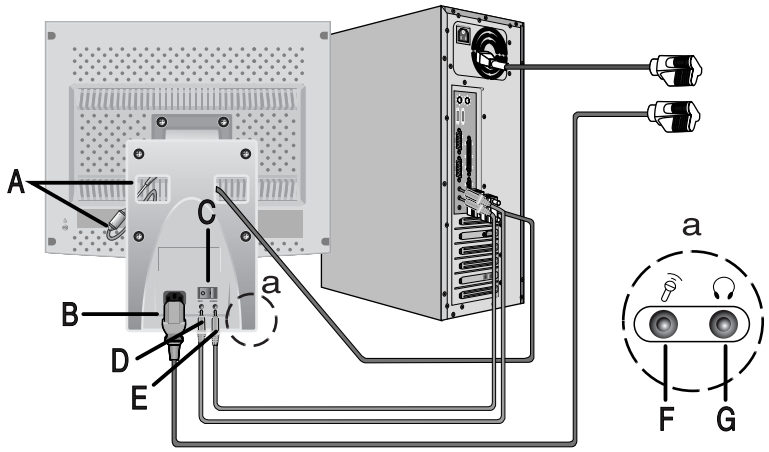

Figure 4. Multimedia connections

1. Follow steps 1 through 3 on the previous page.
2. If you have a Multimedia or Multimedia Pivot stand, connect the attached power adapter jack (A) to the DC power port on the back of your monitor. Connect the power cord to the power port on the back of the stand.
3. Follow the directions that came with your sound card or your computer to connect the speakers and microphone on the stand. See Figure 4, above and Table 1, below.
4. Continue with step 5 on the previous page.

Table 1. Connector locations for multimedia bases

Item	Name	Description
A	**Attached power adapter jack**	Connect this cable to the DC power port on the back of the monitor cabinet.
B	**Power port**	Connect the power cable here.
C	**Power switch**	Use this switch to turn the monitor On and Off.
D	**MIC OUT jack**	Connect a cable here to send sound from the internal microphone to the computer's sound card.
E	**AUDIO IN jack**	Connect a cable here to bring sound from your computer's sound card.

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Table 1. Connector locations for multimedia bases (*Continued*)

Item	Name	Description
F	**External microphone jack**	Connect an external microphone here. Using an external microphone automatically disconnects the monitor's internal microphone.
G	**Headphone jack**	Connect headphones here. Connecting headphones automatically turns the speakers off.

Plug and Play

Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification (EDID) data using Display Data Channel (DDC) protocols so the PC system can automatically configure itself to use the flat panel display. If your PC system needs a video driver, following the instructions given below according to the operating system your computer uses.

Installing the Video Driver

When prompted by the operating system for the monitor driver, insert the Driver diskette included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions as appropriate for the operating system you have.

Windows® 98

1. Windows® 98 will auto-detect your new monitor and start the "Add New Hardware Wizard" if the drivers are not already installed. Click the **NEXT** button to search for drivers.
2. Check the diskette drive box to install the drivers off the diskette provided with your FPD monitor and click **NEXT**.
3. Confirm that Windows found the driver on the diskette and click **NEXT** again to install the driver.

To manually install or update the driver, follow the directions below:

1. Click on **START, SETTINGS, CONTROL PANEL, DISPLAY SETTINGS** tab, **ADVANCED, MONITOR** tab, **CHANGE**. This will start the "Add New Hardware Wizard".
2. Follow the same directions as given in the steps in the section above.

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Windows® 95

To determine the version of Windows® 95 that your computer uses, right click on the "My Computer" icon on the Windows desktop and select "Properties". The version number can be seen on the "General" section under "System:". Follow the directions given below according to the version of your Windows® 95 operating system:

Version 4.00.950A

1. Click on **START**, **SETTINGS**, **CONTROL PANEL**, **DISPLAY SETTINGS** tab, **CHANGE DISPLAY TYPE**, **CHANGE**, **HAVE DISK**.
2. Type the diskette drive letter in the box and click **OK**.

Version 4.00.950B

1. Click on **START**, **SETTINGS**, **CONTROL PANEL**, **DISPLAY**, **ADVANCED PROPERTIES**, **MONITOR** tab, **HAVE DISK**.
2. Type the diskette letter in the box and click **OK**.

Self-Test Feature Check (STFC)

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark and the power indicator is blinking, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.

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If the monitor is functioning properly, you will see a white box with a red border and black text inside as shown in the following illustration:

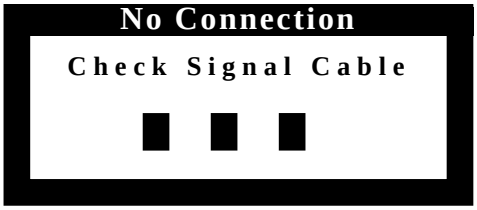

Figure 5. Monitor self test screen

The three boxes inside the border are red, green and blue. Failure of any of the boxes to appear indicates a problem with your monitor. This box also appears during normal operation if the video cable becomes disconnected or damaged.

4 Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; your monitor is functioning properly.

Getting Help

If your monitor does not display an image, check your cable connections and refer to "Troubleshooting" on page 20. If you experience difficulties with the quality of the displayed image, run Auto Adjustment (see page 11) and refer to "Adjusting Your FPD" on page 10 or "Troubleshooting" on page 20.

Warm-up Time

All FPD monitors need time to become thermally stable the first time you turn them on each day. Therefore, to achieve more accurate adjustments for parameters, allow the FPD monitor to warm (be on) for at least 20 minutes before making any screen adjustments.

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User Controls

Your flat panel display allows you to easily adjust the characteristics of the image being displayed. All of these adjustments are made using the control buttons on the front of the monitor. While you use these buttons to adjust the controls, an on-screen menu shows you their numeric values as they change.

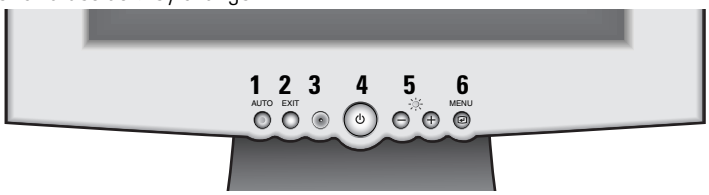

Figure 6. User control locations

No.	Name	Description
1	**AUTO**	■ Activates the Auto Adjustment function.
2	**EXIT**	■ Exits from menus and sub-menus. ■ Exits from the on-screen menu system (OSM).
3	**Power indicator**	■ Glows green during normal operation. ■ Glows amber while the monitor is in a power saving mode and if the signal cable becomes disconnected.
4	**Power button**	■ Turns the monitor on and off.
5	**– / +** **Brightness** ☼	■ Moves the selector between menus and sub-menus on the OSM. ■ Decreases or increases values of the selected function. ■ Directly adjusts the brightness level if pressed while the OSM is off (See the section on "Direct-Access Features" on page 11).
6	**MENU**	■ Opens the OSM system and sub-menus. ■ Selects the highlighted function.

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Automatic Save

Whenever you open the on-screen menu and allow an adjustment window to remain active for about 3 seconds without pressing another button, the monitor automatically saves any adjustments you have made. These changes are saved into a user area in the monitor. User areas are reserved according to the signal frequency from your computer. The monitor can save adjustments for up to 5 user modes. It has 12 factory preset or preload modes, one for each signal frequency as listed in "Display Modes" on page 26.

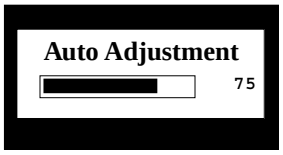
If you have made no adjustments, the on-screen menu disappears and the monitor does not save anything. To exit without saving the changes you have made, press the **EXIT** button before the 3 seconds elapse.

Direct-Access Features

The features described in this section can be accessed quickly, at the touch of one button. Once you finish making adjustments to a feature, push the **EXIT** button to turn off the menu or allow the OSM to time-out and disappear automatically

Auto Adjustment

Even though your computer system can recognize your new FPD monitor, the auto adjustment function will optimize the display settings for use with your computer.



Follow these instructions to activate the automatic screen adjustments for your monitor.

1 Push the **AUTO** button. The automatic adjustment display appears and the slidebar moves to indicate progress during the auto adjustment procedure.

NOTE: 1. For Auto Adjustment to function correctly, the monitor must display a full screen, colored image such as the Windows desktop.

2. Even though Auto Adjustment sets most image adjustments automatically, distortions may remain depending on the video board performance. After using Auto Adjustment, we recommend that you perfect the image by using the OSM functions.

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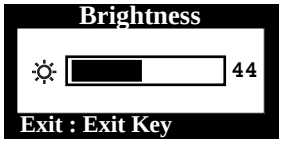
Brightness



Follow these instructions to adjust the brightness of the monitor's display.

1. With the menu off, push the "–" or "+" button to display the brightness screen.
2. Push the "+" button to increase the brightness; push the "–" button to decrease the brightness.

OSM Lock/Unlock

Use this function to secure the current settings so that they cannot inadvertently be changed, while still allowing you to adjust Brightness and Contrast. You can unlock the OSM controls at any time by using the same procedure as described below.

1. Push and hold the **MENU** button for 5 seconds to Lock or Unlock the controls. When locked, a "LOCKED!" message displays along the bottom of each OSM menu screens except the "Brightness" and "Contrast" screens.

On-Screen Menu System (OSM)

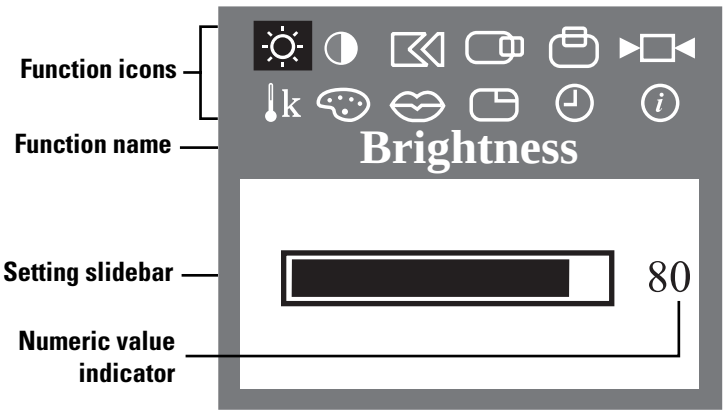


Figure 7. On-Screen Menu (OSM)

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Accessing the menu system

1 With the OSM off, push the **MENU** button to open it and display the main function menu.

2 Use the "–" and "+" buttons to move between the function icons. As you move from one icon to another, the function name changes to reflect the function or group of functions represented by that icon. See the Screen controls table to view a complete list of all the functions available for the monitor.

3 Push the **MENU** button once to activate the highlighted function then use the "–" and "+" buttons to move to sub-menus, or according to the indicators on the menu, to make your changes.

4 After selecting a function, use the "–" and "+" buttons to make the adjustments. The setting slidebar moves and the numeric value indicator changes to reflect your adjustments.

NOTE: The numeric value indicator is provided as a point of reference only and does not reflect any measureable value.

5 Push the **EXIT** button once or twice to return to the main menu to select another function or push the **EXIT** button 1 to 3 times to exit from the OSM.

OSM functions and adjustments

Table 2. Screen controls

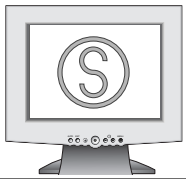
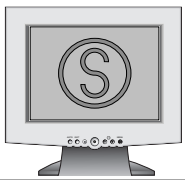
Icon	Menus and Sub-menus	Function Descriptions –	Function Descriptions +
☼	**Brightness**		
◑	**Contrast**		

Table 2. Screen controls (*Continued*)

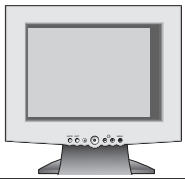
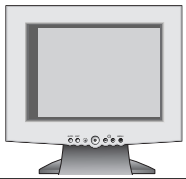
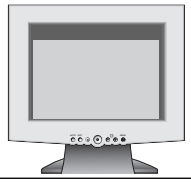
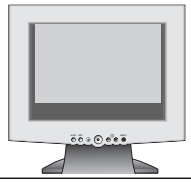
Icon	Menus and Sub-menus	Function Descriptions – +
	Image Lock:	Image Lock controls adjust for and limit the amount of noise in the video signal which causes horizontal lines or areas on the screen where the image appears to be unstable and jitters or shimmers.
	■ Fine ■ Coarse	The Fine and Coarse adjustments allow you to more closely adjust your monitor to your preference. Use the "–" and "+" buttons to adjust away interference. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again. This function may change the width of the display image. Use the H-Position menu to center the display image on the screen.
	H-Position	 
	V-Position	 

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Table 2. Screen controls (*Continued*)

Icon	Menus and Sub-menus	Function Descriptions –	+
	Reset	Restores the viewing area and color settings to their original manufacturing levels	
	■ Geometry Reset	Resets the H-Position and V-Position of the viewing area	
	■ Color Reset	Resets the Brightness, Contrast and Color Control functions	
	Color Temperature	Select the Color Mode you find most comfortable and then fine tune the colors using the Color Control menus	
	■ Mode 1	Sets the color to the natural characteristics of the FPD	
	■ Mode 2	Sets the color to a warm (reddish) white	
	■ Mode 3	Sets the color to a cool (bluish) white	
	Color Control	Adjusts the saturation of Red, Green and Blue in the display area	
	■ R(ed)	Decreases redness	Increases redness
	■ G(reen)	Decreases greenness	Increases greenness
	■ B(lue)	Decreases blueness	Increases blueness

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Table 2. Screen controls (*Continued*)

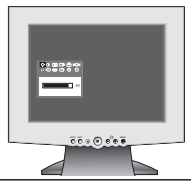
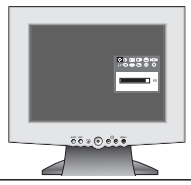
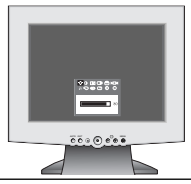
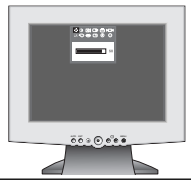
Icon	Menus and Sub-menus	Function Descriptions – +
	Language: ■ English ■ Deutsch ■ Español ■ Français ■ Italiano ■ Svenska	Language sets the OSM to display in one of six languages. The language chosen affects only the language of the OSM. It has no effect on any software running on the computer.
	Menu Position	Each time the OSM opens it displays in the same location on the screen. Menu Position controls that location.
	■ H-Position	 
	■ V-Position	 
	Menu Display Time: ■ 5 Seconds ■ 10 Seconds ■ 20 Seconds ■ 200 Seconds	The OSM stays active for as long as it is in use. Menu Display Time sets the length of time the OSM will remain active after the last time you pushed a button.

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Table 2. Screen controls (*Continued*)

Icon	Menus and Sub-menus	Function Descriptions – +
ⓘ	**Display Mode**	This screen shows the horizontal and vertical frequencies, sync polarity and the display resolution of the images received from the computer or video card.

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Audio Controls

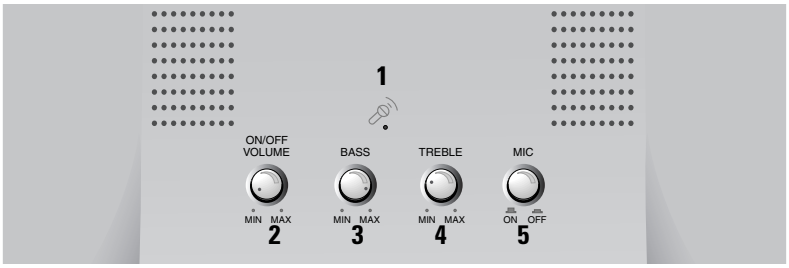

Figure 8. Multimedia stand audio controls

To access the On/Off, Volume, Bass and Treble functions, rotate the appropriate control button to the right or left to adjust the function.

Table 3. Audio Control Function

No.	Function	Description and adjustments	
1	Internal Microphone	Picks up sound and sends it to the sound card in your PC.	
2	On/Off Volume	Turns the sound on and off.	
		■ Left: Off/ Decrease volume	■ Right: On/ Increase volume
3	Bass	Adjusts the volume of the low sound.	
		■ Left: Decrease volume	■ Right: Increase volume
4	Treble	Adjusts the volume of the high sound.	
		■ Left: Decrease volume	■ Right: Increase volume
5	Mic On/Off	Turns the internal microphone on or off. Push the button:	
		■ In: Off	■ Out: On

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PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The available modes are "On", "Standby", "Sleep", and "Deep Sleep".

PowerSaver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See Table 4 below for details.

Table 4. Power-saving modes

State	Normal Operation	Power-Saving Function mode (EPA/NUTEK/ENERGY 2000)		
		Standby Mode	Sleep Mode Position A1	Deep Sleep Mode Position A2
Horizontal Sync Vertical Sync Video	Active Active Active	Inactive Active Blanked	Active Inactive Blanked	Inactive Inactive Blanked
Power Indicator	Green	Amber	Amber Blinking (0.5 sec interval)	Amber Blinking (1 sec interval)
Power Consumption	25W (Nom.)	Less than 3W	Less than 3W	Less than 3W

NOTE: This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer's mouse or press a key on the keyboard.

This monitor is EPA ENERGY STAR ® compliant and NUTEK/ENERGY 2000 compliant when used with a computer equipped with VESA DPMS functionality.

For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.

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Troubleshooting

If you have a problem setting up or using your FPD monitor, you may be able to solve it yourself. Before contacting customer service, try the suggested actions that are appropriate to your problem.

Table 5. Troubleshooting problems – Image

What you see...	Suggested Action	Reference
Screen is blank and power indicator is off	■ Ensure that the power cord is firmly connected and the FPD monitor is on.	Connecting your FPD Monitor, page 5.
"No Connection, Check Signal Cable" message	■ Ensure that the signal cable is firmly connected to the PC or video board. ■ Ensure that the PC is turned on.	Connecting your FPD Monitor, page 5.
"Video mode not supported" message	■ Check the maximum resolution and the frequency on the video port of your computer. ■ Compare these values with the data in the Display Modes Timing Chart.	Display Modes, page 26.
The image is too light or too dark	■ Adjust the Brightness and Contrast.	Brightness, page 12 and page 13. Contrast, page 13.
Horizontal bars appear to flicker, jitter or shimmer on the image	■ Adjust the Fine function.	Image Lock, Fine, page 14.
Vertical bars appear to flicker, jitter or shimmer on the image.	■ Adjust the Coarse function and then adjust the Fine function.	Image Lock, Coarse, page 14. Image Lock, Fine, page 14.

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Table 5. Troubleshooting problems – Image (*Continued*)

What you see...	Suggested Action	Reference
Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds.	■ The monitor is using its power management system. ■ Move the computer's mouse or press a key on the keyboard.	PowerSaver, page 19.
Image is not stable and may appear to vibrate.	■ Check that the display resolution and frequency from your PC or video board is an available mode for your monitor. On your computer check: Control Panel, Display, Settings.	Display Mode, page 17. Display Modes, page 26.
	■ If the setting is not correct, use your computer utility program to change the display settings.	Installing the Video Driver, page 7.
	NOTE: Your monitor supports multiscan display functions within the following frequency domain:	
	■ Horizontal frequency: ■ Vertical frequency: ■ Maximum refresh rate:	30 kHz ~ 61 kHz 50 Hz ~ 75 Hz 1024 x 768 @ 75 Hz
Image is not centered on the screen.	■ Adjust the horizontal and vertical position.	H-Position, page 14. V-Position, page 14.
You need the monitor driver software.	■ Download the driver from the internet at: http://www.samsung-monitor.com http://www.samsungmonitor.com (USA only)	

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Table 6. Troubleshooting problems – Audio

Problem	Suggested Action	Reference
No sound	■ Ensure that the audio cable is firmly connected to both the audio-in port on your monitor and to the audio–out port on your sound card or computer.	Connecting your Multimedia Monitor, page 6.
	■ Rotate the Audio On/Off and Volume control to the right to turn it on and raise the volume.	Audio Controls, page 18.
Sound level is too low	■ Rotate the Audio On/Off and Volume control to the right to raise the volume.	Audio Controls, page 18.
	■ If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.	Refer to your computer, sound card or software documentation.
Howling effect occurs	■ Decrease the volume slightly. ■ If you are using an external microphone, move it away from the speakers and adjust the volume level.	Audio Controls, page 18.
Sound is too high pitched or too low pitched	■ Adjust the Treble and Bass as appropriate.	Audio Controls, page 18.

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Table 6. Troubleshooting problems – Audio (*Continued*)

Problem	Suggested Action	Reference
Microphone is not working	■ Check the microphone cable connection.	Connecting your Multimedia Monitor, page 6.
	■ Your sound card must be compatible with an internal, embedded microphone. If it is not, use the microphone that came with your computer or sound card.	Your computer or sound card documentation.

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Specifications

Table 7. Technical and environmental specifications

Panel	Size Display Size Type Pixel pitch Viewing Angle	15.0" Diagonal 304.1 (H) x 228.1 (V) mm a-si TFT active matrix 0.297 (H) x 0.297 (V) mm 60/60/55/55 (L/R/U/D): min. (Depending on the panel manufacturer, the viewing angle may be different from this spec.)
* Frequency	Horizontal Vertical Display color	30 ~ 61 kHz 50 ~ 75 Hz 16,003,008 colors
Display Resolution	Optimum Mode Maximum Mode	1024 x 768 @ 60 Hz 1024 x 768 @ 75 Hz
Input Signal	Sync Video signal	H/V Separate, TTL, P. or N. H/V Composite, TTL, P. or N. Sync-on-green 0.3 Vp-p, N. 0.7 Vp-p @ 75 ohm, P.
Power Supply	AC 90 ~ 264 Volts, 60 Hz / 50Hz to 12V/3A	
Power Consumption	Normal Power Saving	25 Watt Less than 3 W
Dimensions / Unit Weight	Unit (WxHxD) with Simple base: MultiMedia base: Pivot MM base: Angle-Pivot base: Wire-frame base:	 385.4 x 373.3 x 173 mm / 5.20kg 385.4 x 406.2 x 179 mm / 5.95kg 385.4 x 406.2 x 179 mm / 5.95kg 385.4 x 431.6 x 178.9 mm / 6.6kg 385.4 x 339.2 x 99.7 mm / 4.4kg
Environmental Considerations	Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50 °F to 104 °F (10 °C to 40 °C) 10% to 80% -13 °F to 113 °F (-25 °C to 45 °C) 5% to 95%
Audio Characteristics (Available with Multimedia bases only)	Built-in Mic. Audio Input Sound Output Frequency Response Headphone	High Sensitivity Condenser Mic. (mono) L/R Stereo Phone Jack, 0.5 Vrms 1.0 W (L) + 1.0 W (R)/THD 1% at 8 ohm 80 Hz ~ 20 kHz (at -3dB) Max 50 mW output (3.5 – pi jack)

* Referring to Preset timing modes, page 26.

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Pin Assignments

Table 8. 15 pin D-sub connector

Pin	Separate H/V	Composite H/V	Sync-on-green
1	Red	Red	Red
2	Green	Green	Green + H/V Sync
3	Blue	Blue	Blue
4	GND	GND	GND
5	GND (DDC Return)	GND (DDC Return)	GND (DDC Return)
6	GND-Red	GND-Red	GND-Red
7	GND-Green	GND-Green	GND-Green
8	GND-Blue	GND-Blue	GND-Blue
9	No Connection	No Connection	Not used
10	GND-Sync/Self Test	GND-Sync/Self Test	GND-Sync/Self Test
11	GND	GND	GND
12	DDC Data	DDC Data	DDC Data
13	Horizontal Sync	H/V Sync	Not used
14	Vertical Sync	Not used	Not used
15	DDC Data	DDC Data	DDC Data

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Display Modes

If the signal from the system equals to the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal to the standard signal mode, adjust the mode with referring to the Videocard user guide because the screen might not display or only the power LED might be on. For the display modes listed below, the screen image has been optimized during manufacture.

Table 9. Preset timing modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
Mac. 640 x 480	35.00	66.67	30.240	–/–
Mac. 832 x 624	49.73	75.00	57.284	–/–
VGA, 640 x 350	31.47	70.00	25.175	+/–
VGA, 720 x 400	31.47	70.00	28.322	–/+
VGA, 640 x 480	31.47	60.00	25.175	–/–
VGA, 640 x 480	37.50	75.00	31.500	–/–
SVGA, 800 x 600	35.16	56.20	36.000	+, –/+, –
SVGA, 800 x 600	37.88	60.30	40.000	+/+
SVGA, 800 x 600	46.875	75.00	49.500	+/+
XGA, 1024 x 768	48.36	60.00	65.000	–/–
XGA, 1024 x 768	56.48	70.00	75.000	–/–
XGA, 1024 x 768	60.02	75.00	78.750	+/+

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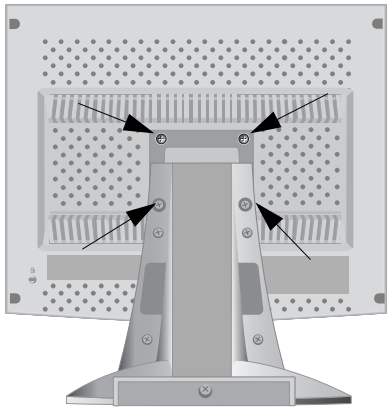
English

Changing the Base

Removing the base



1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove the four screws and then remove the Stand from the LCD monitor.

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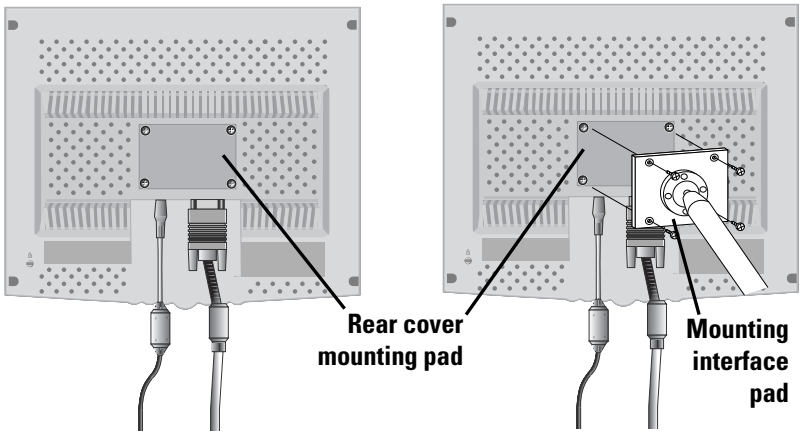
Attaching a base

NOTE: This monitor accepts a 75mm x 75mm VESA-compliant mounting interface pad.



1 Align the Mounting Interface Pad with the holes in the Rear Cover Mounting Pad and secure it with the four screws that came with the arm-type base, wall mount hanger or other base.

Maintenance of Your Flat Panel Display

WARNING: To avoid risk of electric shock, do not disassemble the monitor cabinet (except for gaining access to the cable connectors as described on page 6). Users cannot service the monitor. User maintenance is restricted to cleaning as explained below:

Unplug the monitor from the power outlet before cleaning.

- To clean your flat panel display screen, lightly dampen a soft, clean cloth with water or mild detergent. If possible, use a special screen cleaning tissue or solution suitable for the antistatic coating.
- To clean the monitor cabinet, use a cloth lightly dampened with a mild detergent.
- Never use flammable cleaning material to clean your flat panel display or any other electrical apparatus.

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FCC Information

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Declaration of conformity for products Marked with FCC Logo

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for product compliance:
SAMSUNG ELECTRONICS CO., LTD
America QA Lab of Samsung
85 West Tasman Drive
San Jose, CA 95134 USA
Tel) 408-544-5124
Fax) 408-544-5191

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlemont ICES-003 sur les équipements produisant des interférences au Canada.

MPR II Compliance

This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022:1998 – Radio Frequency Interference
- EN55024:1998 – Electromagnetic Immunity
- EN61000-3-2:1995 + A1 + A2 – Power Line Harmonics
- EN61000-3-3:1995 – Voltage Fluctuations
- EN60950 – Product Safety.

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